Bruhat Bangalore Mahanagara Palike

Executive Engineer
Yelhanka Division

DETAILED ESTIMATE

NAME OF WORK: **Construction of drains and Improvemnts to roads at sri M Vishweshwariah road and church road surabhilayout in Ward No.1 of Yelhanka Sub division**

PROJECT COST: **65.00 Lakhs**

MECADEZ
Insight Makes It Happen

Mecadez Core Technologies Private limited

Project Management and Consultancy Services

Office: #103,1st Main, 3rd Cross, Kottigepalya,
Magadi Main Road, Bangalore 560 091
Ph: - +91-9538136111 +91-7829676869
E-mail: mecadez@gmail.com

BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer-Yelhanka Division

Detailed Estimate

Name of Work: Construction of drains and Improvemnts to roads at sri M Vishweshwariah Road and church road surabhilayout in Ward No.1 of Yelhanka Sub division

Estimate Amount : 6500000.00

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	CIVIL WORKS								
1	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20.**(Page No 136, I.No.18.20 of KPWD S.R 2015-16).**								
		Cum							
	for New Culvert								
	Pyramid Mahika bank sia Cross road-3								
	Ch: (30 - 36)	R/s	1	6	1.50	0.150	1.35		
	Ch: (191 - 203)	R/s	1	12	1.50	0.250	4.50		
							5.85	**450.83**	**2637.36**
2	KSRRB 300-1. **Earthwork excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No141., I.No.19.1 of KPWD S.R 2015-16).**								
		Cum							
	New Drain								
	Pyramid Mahika bank sia Cross road-1								
	Ch: (0 - 37)	L/s	1	37	1.30	0.900	43.29		
	Ch: (43 - 194)	L/s	1	151	1.30	0.900	176.67		
	Ch: (200 - 245)	L/s	1	45	1.30	0.900	52.65		
	CR-1-Ch: (0 - 13)	R/s	1	13	1.00	0.800	10.40		
	CR-2-Ch: (0 - 21)	R/s	1	21	1.00	0.800	16.80		
	CR-4-Ch: (0 - 62)	B/s	2	62	1.00	0.800	99.20		
	CR-5-Ch: (0 - 62)	B/s	2	62	1.00	0.800	99.20		
	Pyramid Mahika bank sia Cross road-2								
	Ch: (0 - 235)	R/s	1	235	1.30	0.900	274.95		
	Pyramid Mahika bank sia Cross road-3								
	Ch: (0 - 30)	R/s	1	30	1.30	0.900	35.10		
	Ch: (36 - 61)	R/s	1	25	1.30	0.900	29.25		
	Ch: (67 - 91)	R/s	1	24	1.30	0.900	28.08		
	Ch: (97 - 128)	R/s	1	31	1.30	0.900	36.27		
	Ch: (133 - 150)	R/s	Drain Present						
	Ch: (150 - 191)	R/s	1	41	1.30	0.900	47.97		
	From Main road to VDB Appartment								
	Ch: (0 - 87)	R/s	1	87	1.30	0.900	101.79		
	New Culvert								

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Pyramid Mahika bank sia Cross road-1								
	Ch: (37 - 43)	L/s	1	6	1.50	0.900	8.10		
	Ch: (194 - 200)	L/s	1	6	1.50	0.900	8.10		
	Pyramid Mahika bank sia Cross road-3								
	Ch: (30 - 36)	R/s	1	6	1.50	0.900	8.10		
	Ch: (191 - 203)	R/s	1	12	1.50	0.900	16.20		
							1092.12	**168.76**	**184306.17**
3	KSRB 4-1.2 : Providing and laying in **position plain cement concrete of mix1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 **(Page No 12., I.No.4.2 of KPWD S.R 2015-16).**								
		Cum							
	New Drain								
	Pyramid Mahika bank sia Cross road-1								
	Ch: (0 - 37)	L/s	1	37	0.90	0.100	3.33		
	Ch: (43 - 194)	L/s	1	151	0.90	0.100	13.59		
	Ch: (200 - 245)	L/s	1	45	0.90	0.100	4.05		
	CR-1-Ch: (0 - 13)	R/s	1	13	0.60	0.100	0.78		
	CR-2-Ch: (0 - 21)	R/s	1	21	0.60	0.100	1.26		
	CR-4-Ch: (0 - 62)	B/s	2	62	0.60	0.100	7.44		
	CR-5-Ch: (0 - 62)	B/s	2	62	0.60	0.100	7.44		
	Pyramid Mahika bank sia Cross road-2								
	Ch: (0 - 235)	R/s	1	235	0.90	0.100	21.15		
	Pyramid Mahika bank sia Cross road-3								
	Ch: (0 - 30)	R/s	1	30	0.90	0.100	2.70		
	Ch: (36 - 61)	R/s	1	25	0.90	0.100	2.25		
	Ch: (67 - 91)	R/s	1	24	0.90	0.100	2.16		
	Ch: (97 - 128)	R/s	1	31	0.90	0.100	2.79		
	Ch: (133 - 150)	R/s	Drain Present						
	Ch: (150 - 191)	R/s	1	41	0.90	0.100	3.69		
	From Main road to VDB Appartment								
	Ch: (0 - 87)	R/s	1	87	0.90	0.100	7.83		
	New Culvert								
	Pyramid Mahika bank sia Cross road-1								
	Ch: (37 - 43)	L/s	1	6	1.20	0.100	0.72		
	Ch: (194 - 200)	L/s	1	6	1.20	0.100	0.72		
	Pyramid Mahika bank sia Cross road-3								
	Ch: (30 - 36)	R/s	1	6	1.20	0.100	0.72		
	Ch: (191 - 203)	R/s	1	12	1.20	0.100	1.44		
							84.06	**5236.92**	**440215.50**

No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Providing and laying Plain /reinforced cement concrete **M20** for Box drain walls of thickness 10cm to 20cm including centring shuttering for work etc. complete as per approved drawing and design MORTH specification No.1500,1700,2200 **(Page No258., I.No.37.59.2 of KPWD S.R 2015-16).**								
		Cum							
	Raft								
	New Drain								
	Pyramid Mahika bank sia Cross road-1								
	Ch: (0 - 37)	L/s	1	37	0.90	0.150	5.00		
	Ch: (43 - 194)	L/s	1	151	0.90	0.150	20.39		
	Ch: (200 - 245)	L/s	1	45	0.90	0.150	6.08		
	CR-1-Ch: (0 - 13)	R/s	1	13	0.60	0.100	0.78		
	CR-2-Ch: (0 - 21)	R/s	1	21	0.60	0.100	1.26		
	CR-4-Ch: (0 - 62)	B/s	2	62	0.60	0.100	7.44		
	CR-5-Ch: (0 - 62)	B/s	2	62	0.60	0.100	7.44		
	Pyramid Mahika bank sia Cross road-2								
	Ch: (0 - 235)	R/s	1	235	0.90	0.150	31.73		
	Pyramid Mahika bank sia Cross road-3								
	Ch: (0 - 30)	R/s	1	30	0.90	0.150	4.05		
	Ch: (36 - 61)	R/s	1	25	0.90	0.150	3.38		
	Ch: (67 - 91)	R/s	1	24	0.90	0.150	3.24		
	Ch: (97 - 128)	R/s	1	31	0.90	0.150	4.19		
	Ch: (133 - 150)	R/s	Drain Present						
	Ch: (150 - 191)	R/s	1	41	0.90	0.150	5.54		
	From Main road to VDB Appartment								
	Ch: (0 - 87)	R/s	1	87	0.90	0.150	11.75		
	New Culvert								
	Pyramid Mahika bank sia Cross road-1								
	Ch: (37 - 43)	L/s	1	6	1.20	0.200	1.44		
	Ch: (194 - 200)	L/s	1	6	1.20	0.200	1.44		
	Pyramid Mahika bank sia Cross road-3								
	Ch: (30 - 36)	R/s	1	6	1.20	0.200	1.44		
	Ch: (191 - 203)	R/s	1	12	1.20	0.200	2.88		
	Wall								
	New Drain								
	Pyramid Mahika bank sia Cross road-1								
	Ch: (0 - 37)	L/s	2	37	0.15	0.900	9.99		
	Ch: (43 - 194)	L/s	2	151	0.15	0.900	40.77		
	Ch: (200 - 245)	L/s	2	45	0.15	0.900	12.15		
	CR-1-Ch: (0 - 13)	R/s	2	13	0.10	0.650	1.69		
	CR-2-Ch: (0 - 21)	R/s	2	21	0.10	0.650	2.73		
	CR-4-Ch: (0 - 62)	B/s	4	62	0.10	0.650	16.12		
	CR-5-Ch: (0 - 62)	B/s	4	62	0.10	0.650	16.12		
	Pyramid Mahika bank sia Cross road-2								
	Ch: (0 - 235)	R/s	2	235	0.15	0.900	63.45		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Pyramid Mahika bank sia Cross road-3								
	Ch: (0 - 30)	R/s	2	30	0.15	0.900	8.10		
	Ch: (36 - 61)	R/s	2	25	0.15	0.900	6.75		
	Ch: (67 - 91)	R/s	2	24	0.15	0.900	6.48		
	Ch: (97 - 128)	R/s	2	31	0.15	0.900	8.37		
	Ch: (133 - 150)	R/s	Drain Present						
	Ch: (150 - 191)	R/s	2	41	0.15	0.900	11.07		
	From Main road to VDB Appartment								
	Ch: (0 - 87)	R/s	2	87	0.15	0.900	23.49		
	New Culvert								
	Pyramid Mahika bank sia Cross road-1								
	Ch: (37 - 43)	L/s	2	6	0.20	0.700	1.68		
	Ch: (194 - 200)	L/s	2	6	0.20	0.700	1.68		
	Pyramid Mahika bank sia Cross road-3								
	Ch: (30 - 36)	R/s	2	6	0.20	0.700	1.68		
	Ch: (191 - 203)	R/s	2	12	0.20	0.700	3.36		
							355.11	**6931.44**	**2461423.6**
5	KSRB 4.9.2 : Providing **T .M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500 **(Page No 17., I.No.4.46.2 of KPWD S.R 2015-16).**								
		Tonne							
	Taking 60kg/m3								
			355.11*60/1000				21.31		
							21.31	**69805.80**	**1487324.2**
6	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-Data rate								
		Sqm							
	Covering Slab								
	New Drain								
	Pyramid Mahika bank sia Cross road-1								
	Ch: (0 - 37)	L/s	1	37	0.90		33.30		
	Ch: (43 - 194)	L/s	1	151	0.90		135.90		
	Ch: (200 - 245)	L/s	1	45	0.90		40.50		
	CR-1-Ch: (0 - 13)	R/s	1	13	0.90		11.70		
	CR-2-Ch: (0 - 21)	R/s	1	21	0.90		18.90		
	CR-4-Ch: (0 - 62)	B/s	2	62	0.90		111.60		
	CR-5-Ch: (0 - 62)	B/s	2	62	0.90		111.60		
	Pyramid Mahika bank sia Cross road-2								
	Ch: (0 - 235)	R/s	1	235	0.90		211.50		
	Pyramid Mahika bank sia Cross road-3								
	Ch: (0 - 30)	R/s	1	30	0.90		27.00		
	Ch: (36 - 61)	R/s	1	25	0.90		22.50		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (67 - 91)	R/s	1	24	0.90		21.60		
	Ch: (97 - 128)	R/s	1	31	0.90		27.90		
	Ch: (133 - 150)	R/s	Drain Present						
	Ch: (150 - 191)	R/s	1	41	0.90		36.90		
	From Main road to VDB Appartment								
	Ch: (0 - 87)	R/s	1	87	0.90		78.30		
							889.20	1834.00	1630792.80
7	Providing precast slab of **250mm thick** including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-Data rate								
		Sqm							
	Covering Slab								
	New Culvert								
	Pyramid Mahika bank sia Cross road-1								
	Ch: (37 - 43)	L/s	1	6	1.50		9.00		
	Ch: (194 - 200)	L/s	1	6	1.50		9.00		
	Pyramid Mahika bank sia Cross road-3								
	Ch: (30 - 36)	R/s	1	6	1.40		8.40		
	Ch: (191 - 203)	R/s	1	12	1.50		18.00		
							44.40	5111.00	226928.40
	Sub Total								6433628.15
8	Cost towards Design Report and Detailed Estimate,PMC/Third party								64336.28
9	Miscllenous and other charges								2035.57
	Grand Total								6500000.00

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2015-16
4. That the provisions made in the estimate are necessary and quite essential.

Consultant:

For M/s MECADEZ CORE TECHNOLOGIES PVT LTD

Asst. Engineer
Ward No-1
BBMP

AEE
Yelhanka Sub Division
BBMP

Executive Engineer
Yelhanka Division
BBMP